BLU-BD1080 Blu-ray Disc Player

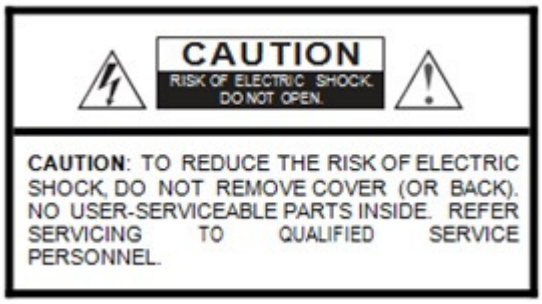
User Manual

Composite/Component Output
RCA Digital Audio Out
USB
HDMI
Full HD 1080
BD LIVE
dts-HD Master Audio | Essential
Blu-ray Disc
DVD
VCD
COMPACT disc DIGITAL AUDIO
DOLBY TRUEHD
7.1 Channel
DVD UPCONVERT
AVCHD
H.264 MPEG-4/AVC
.AVI
MPEG4
mp3
PARENTAL CONTROL
Java POWERED

BLU-BD1080 USER MANUAL

IMPORTANT SAFETY INSTRUCTIONS AND PRECAUTIONS

- Please read the instructions carefully before using this product
- Observe all warnings and cautions when using this product.
- Retain all manuals and documentation for future referral.
- Only use this product in the manner described in this manual.
- Do not use this device in extremely hot, cold, humid, dusty or sandy environments.
- Do not use this device in electrical storms or other conditions if the likely hood of lightning is possible.
- Do not attempt to clean this product using liquid cleaners or aerosol cleaners. Use only a damp soft cloth to clean the surface of this device.
- This device may become hot during use. Do not cover vent holes and place in a well ventilated area.
- This device is not waterproof. Do not use this device in the open if there is a high level of moisture in the air.
- Only place the device on a stable surface and ensure that cables attached to the device can not cause the device to fall.
- There are no serviceable parts in this device. Attempts to open this device by unauthorised personnel may cause further damage and void the warranty.
- Images of the product and accessories are indicative only and may vary slightly from actual the product.
- We reserve the right to make changes to this document and the product without notification.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN.
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” withinthe product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instruction in the literature accompanying the appliance

BLU-BD1080 USER MANUAL

IMPORTANT SAFETY INSTRUCTIONS AND PRECATIONS

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

TRADEMARKS

- "Blu-ray Disc", "BONUS*VIEW*" and "BD-Live" are trademarks of the Blu-ray Disc Association.
- Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries.
- DVD Logo is a trademark of DVD Format/Logo Licensing Corp., registered in the U.S., Japan and other countries.
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MEDIA COMPATIBILTY

Since the Blu-ray Disc specifications are new and evolving, some discs may not play properly depending on the disc type, version and encoding. It is possible that a Blu-ray disc manufactured after the player was manufactured uses certain new features of the Blu-ray Disc specifications. To ensure the best possible viewing experience, the player may need a firmware or software update from time to time.

Blu-ray

Media Type	Compatibility	Limitations
Blu-Ray Disk	BD-ROM (SL/DL)	Supports high bit rate audio (Dolby Digital Plus, Dolby TrueHD, DTS-HD High Resolution Audio and DTS-HD Master Audio) adopted in BD-Video.

DVD

Media Type	Compatibility	Limitations
DVD	DVD-ROM, DVD+R(SL/DL), DVD-R (SL/DL), DVD-RW (SL/DL).	DVD Video or files compatible with the BLU-BD1080 only. Recordable DVD media must be finalised by a recorder before playback on the BLU-BD1080.

CD

Media Type	Compatibility	Limitations
CD	CD-Audio, CD-R. CD-RW	Recordable CD media must be finalised by a recorder before playback on the BLU-BD1080.

USB

Media Type	Compatibility	Limitations
USB	Flash Drives	Formatted in FAT or FAT32 only up to 16GB
	Hard drives	NTFS drives read only. FAT32 for use as BD-LIVE™ storage.

USB hard drives connect to the BLU-DB1080 should be powered by another source as well as the USB port. A secondary power source may be required for some Notebook style USB hard drives.

INCOMPATIBLE MEDIA

The following media may not be playable or produce erratic or substandard playback.

- DVD-RAM
- Super Audio CD
- Photo CD
- DVD- Audio
- WMA discs
- DivX discs
- BDs With cartridge
- DVDs with cartridge
- HD DVD
- Data files on CD-Extra discs
- CD Audio with DRM
- Non-finalised media
- BD-Video discs recorded at a rate of 50 fields (frames) per second.

NOTE: *It may not be possible to play the above media in some cases due to the type of media, the condition of the recording, the recording method and how the files were created.*

The producers of the disc can control how discs are played, so you may not always be able to control play as described in this Owner's Manual. Read the disc's instructions carefully.

REGION INFORMATION

Blu-ray

This player is designed and manufactured to respond to the region management information.

If the region number of a BD-Video or DVD disc does not correspond to the current region number of this player, the player cannot play the disc.

The BLU-BD1080 is preset to play discs meant for region B

Region Code	Region Country
A	North America, Central America, South America, Korea, Japan, Taiwan, Hong Kong, South East Asia
B	Europe, Greenland, French territories, Middle East, Africa, Australia, and New Zealand
C	India, China, Russia, Central Asia, and South Asia

DVD

This player is designed to play DVDs from all regions.

Note: *Please refer to the* ***GETTING THE BEST FROM THE PLAYER*** *section later in this manual for information on changing BD & DVD Region Codes.*

PLAYER & DISC CARE

Cleaning the BLU-BD1080 Player

Always turn the player off and unplug the power cord before cleaning.

Never use alcohol, paint thinner or benzene to clean this unit.

Before using chemically treated cloth, carefully read the instructions that came with the cloth.

Please use a damp soft cloth. Wring out any excess liquid and gently wipe the external case of the player. Let the player dry before using again.

Lens Cleaning

Use a commercially available CD/DVD/BD lens cleaner (not supplied) to periodically clean the lens in this player. Please read the instructions supplied with the lens cleaner carefully before use.

Handling Discs

- Handle discs by the edges to avoid inadvertent scratches or fingerprints on the disc.
- Do not attach labels or stickers to discs.
- Do not use record cleaning sprays, benzene, thinner, static electricity prevention liquids or any other solvent.
- Do not use the following discs
    - Discs with exposed adhesive from removed stickers or
    - Labels (rented discs etc) that are lifting or torn.
    - Discs that are warped or cracked.
    - Irregularly shaped discs, such as heart shapes.

Cleaning Discs

DO

Don't

Wipe discs with a soft damp cloth and allow to dry before placing disc in the players tray.

Never use alcohol, paint thinner or benzene to clean discs.

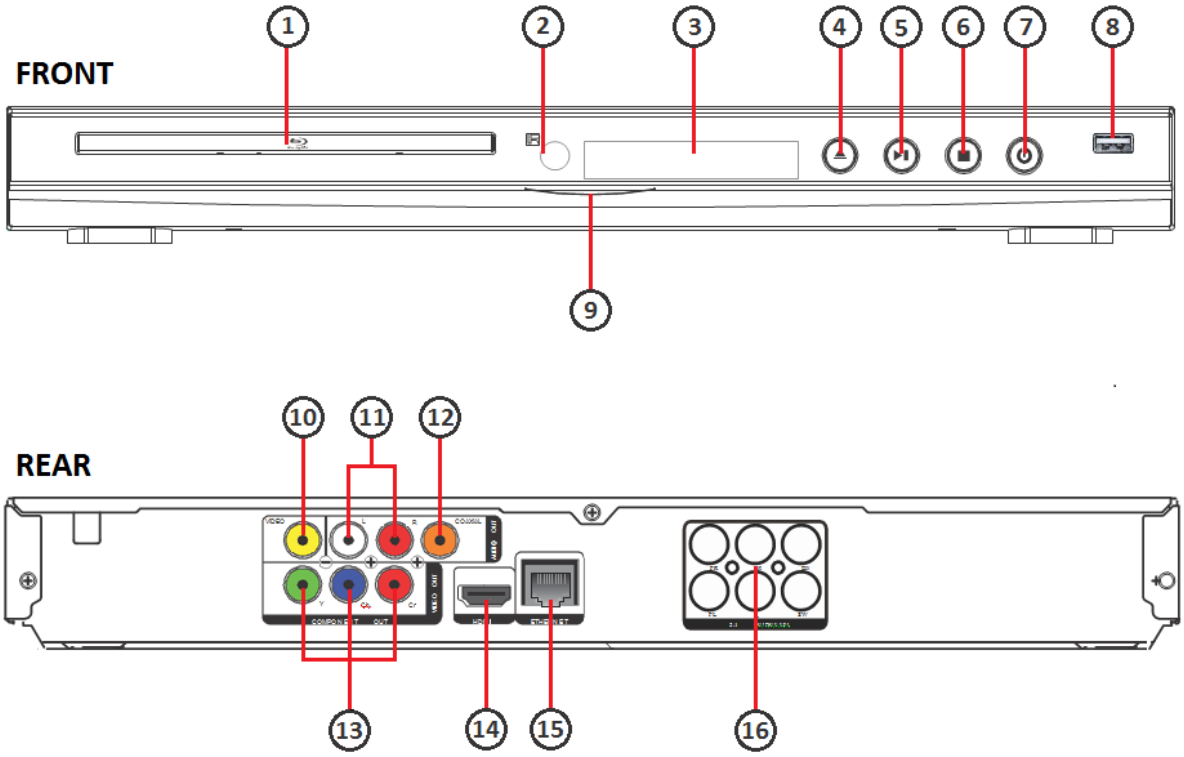
BLU-BD1080 USER MANUAL

WHATS IN THE BOX

- BLU-BD1080 Blu-ray disc player
- Remote control
- 2 x AAA Batteries
- Composite (RCA) Video/Audio cable
- User Manual (This Document)

KNOWING YOUR BLU-BD1080

Please make yourself familiar with the layout of the BLU-BD1080 and the remote control.



Item	Description	Item	Description
1	Disc load tray	9	Power LED
2	IR Remote receiver	10	COMPOSITE Video Out
3	Display	11	Stereo Audio Out
4	OPEN/CLOSE tray button	12	Digital Coaxial Out
5	PLAY/PAUSE loaded disc	13	COMPONENT Video Out
6	STOP loaded disc during playback	14	HDMI port
7	STANDBY	15	Ethernet port
8	USB port	16	5.1 Channel Analogue Audio Out

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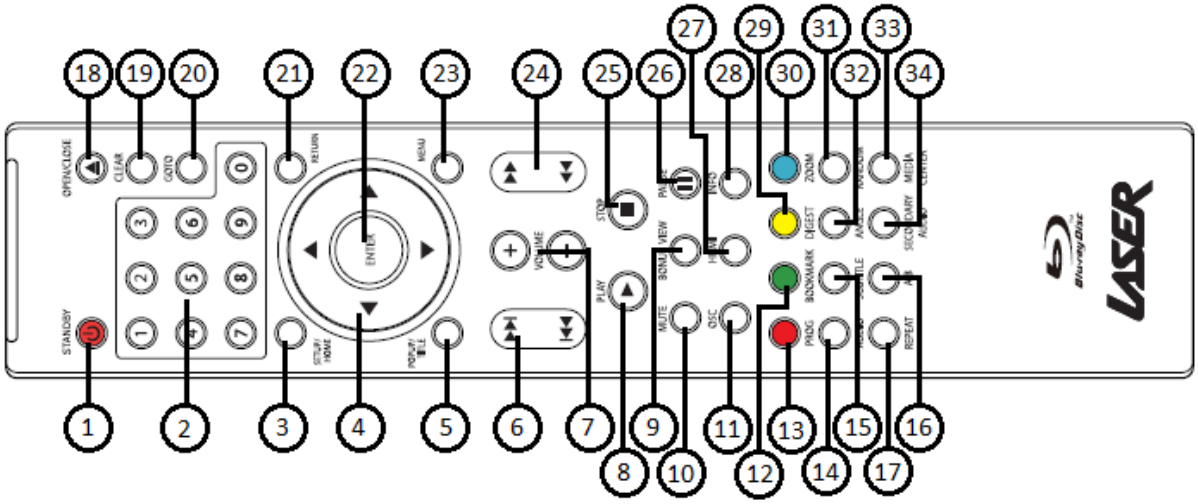
THE REMOTE CONTROL



	LABEL	FUNCTION	BD	DVD/CD	MC
1	STANDBY	Press to turn player On or OFF	✓	✓	✓
2	NUMERIC KEYPAD	For search function	✓	✓	✓
3	SETUP/HOME	Access/Exit Setup menu	✓	✓	✓
4	NAVIGATION ARROWS	Navigate Menus	✓	✓	✓
5	POPUP/TITLE	To View or Exit POPUP menu on supported discs	✓	✗	✗
6	PREVIOUS/NEXT	Skip to previous or next track	✓	✓	✓
7	VOLUME	Adjust the Volume Level up or down	✓	✓	✓
8	PLAY	Press to play loaded disc or current media file	✓	✓	✓
9	BONUSVIEW	Press to view multiple videos (picture in picture)	✓	✗	✗
10	MUTE	Press to must volume	✓	✓	✓
11	OSC	Press to view **O**n **S**creen **C**ontrols	✓	✓	✓
12	BOOKMARK	Press to add Book mark for a loaded disc	✓	✓	✗
13	PROG	Program sequence of track to be played	✓	✓	✗
14	AUDIO	Press to switch between available audio tracks	✓	✓	✗
15	SUBTITLE	Press to switch between available subtitles	✓	✓	✗
16	REPEAT	Press to repeat the current track, chapter or disc	✓	✓	✗
17	A-B	Press to set start and end point for loop playback	✓	✓	✓
18	OPEN/CLOSE	Press to open or close the disc tray	✓	✓	✓
19	Clear	Press to clear numbers entered by Keypad	✓	✓	✓
20	GOTO	Press to go to specific track or time	✓	✓	✓

THE REMOTE CONTROL

	LABEL	FUNCTION	BD	DVD/CD	MC
21	RETURN	Press to return to the previous menu	✓	✓	✖
22	ENTER	Press to confirm menu selection	✓	✓	✓
23	MENU	Press to show the Main Menu for current disk	✓	✓	✖
24	FORWARD/REVERSE	Press to fast forward/fast rewind	✓	✓	✓
25	STOP	Press to stop current playback	✓	✓	✓
26	PAUSE	Press to Pause current playback	✓	✓	✓
27	HDMI	Press to cycle through Video Resolutions	✓	✓	✓
28	INFO	Press to display information on current playback	✓	✓	✓
29	DIGEST	Press to display additional information on discs	✓	✓	✖
30	ZOOM	Press to zoom in or out on current screen image	✓	✓	✓
31	RANDOM	Press to play chapters or track in a random order	✖	✓	✖
32	ANGLE	Press to view alternate angles on supported discs	✓	✓	✖
33	Media Center	Press to open or close Media Center Console	✓	✓	✓
34	SECONDARY AUDIO	Press to Activate Secondary Audio Languages	✓	✓	✖
28	INFO	Press to display information on current playback	✓	✓	✓
29	DIGEST	Press to display additional information on discs	✓	✓	✖
30	ZOOM	Press to zoom in or out on current screen image	✓	✓	✓
31	RANDOM	Press to play chapters or track in a random order	✖	✓	✖
32	ANGLE	Press to view alternate angles on supported discs	✓	✓	✖
33	Media Center	Press to open or close Media Center Console	✓	✓	✓
34	SECONDARY AUDIO	Press to Activate Secondary Audio Languages	✓	✓	✖

BD=Blu-ray Disc; DVD/CD = DVD or CD audio discs; MC = Media Center

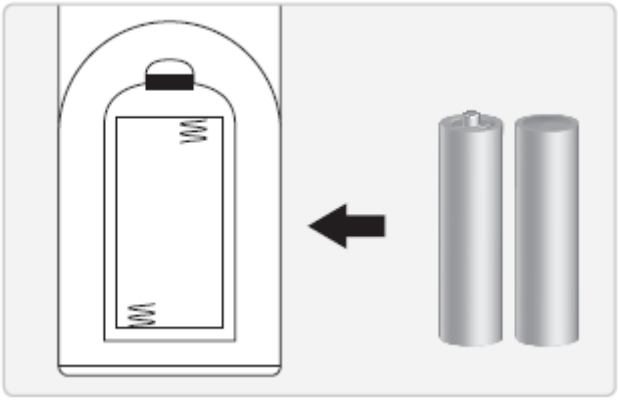
****Please note: Some features on this remote control require the feature to be available and supported by the disc/media being played.***

Installing the Remote Control Batteries

Before using the BLU-DB1080 Blu-ray player, please take a moment to fit the supplied AAA batteries to the remote control.

Unclip the compartment lid and insert the batteries as shown to the right.

When the batteries are fitted. Locate the lugs on the bottom of the lid and clip back in to place.



When using the remote control, the front window of the remote control should be pointed to the infrared sensor on the front panel within an angle of ±30° and a range of about 4.5 meters.

CONNECTING THE PLAYER

Before connecting the BLU-BD1080 please consider the following.

Distance from TV: Make sure that you have the correct length cables to allow the connection of the BLU-BD1080 to your display.

Ventilation: Where ever the BLU-BD1080 is to be setup it must be in a well ventilated area.

Internet Connection: The BLU-BD1080 requires an Ethernet cable to connect to a modem or network switch that has broadband access to the internet to make use of some features on Blu-ray discs (BD-Live).

Once the decision has been made on where to place the player in relation to the TV, please select the connection method that best suits your needs and equipment. Image and sound quality will vary between connection types.

Please connect the Video, Audio and Ethernet cable before connecting to a mains power outlet.

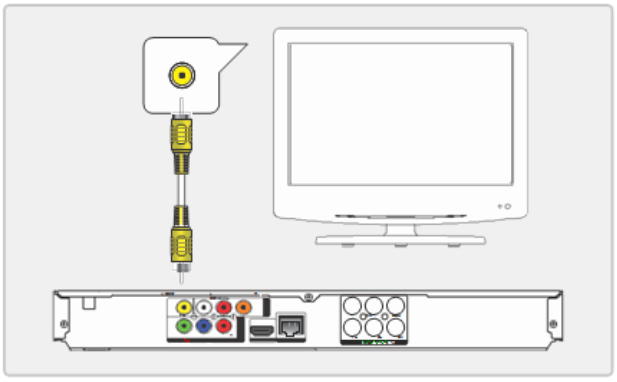
CONNECTING VIDEO

GOOD: Connecting By Composite Video

Requires an RCA video cable (included)

The standard colour for composite video ports is yellow.

1. Plug the RCA video cable into the **COMPOSITE VIDEO OUTPUT** on the player and a **COMPOSITE VIDEO INPUT** on the television.
2. Select the AV Channel on the TV which corresponds to the video input. E.g. AV1, AV2 etc.
3. This will allow video from the player to show on the connected television.

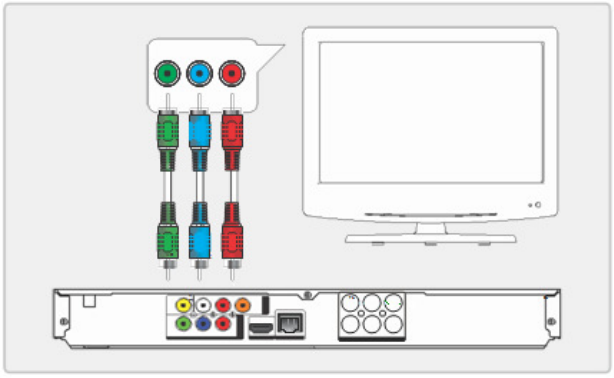


Please see AUDIO CONNECTION for the best audio connection.

BETTER: Connecting By Component Video

Requires an RCA component video cable (not included).

*The standard colours for component video ports are **GREEN, BLUE**, and **RED**.*

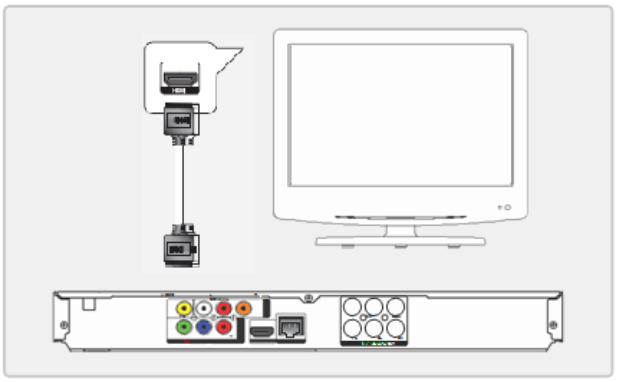


1. Plug the 3 RCA video cables into the **COMPONENT VIDEO OUTPUT** on the player and a **COMPONENT VIDEO INPUT** on the television. Typically these are colour coded and marked as PbPrY.
2. Select the AV Channel on the TV which corresponds to the video input. E.g. **COMPONENT**.
3. This will allow video from the player to show on the connected television.

Please see AUDIO CONNECTION for the best audio connection.

BEST: Connection By HDMI Cable

Requires a HDMI cable (not included).



1. Plug the HDMI cable into the **HDMI OUTPUT** on the player and into the **HDMI input** on the television.
2. Select the AV Channel on the TV which corresponds to the video input. E.g. **HDMI 1, HDMI 2 etc.**
3. This will allow video and audio from the player to play on the connected television.

CONNECTING AUDIO

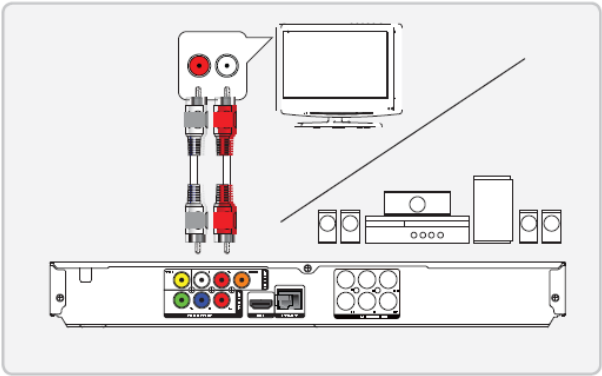
Audio from the BLU-BD1080 can be played through a connected television or through a 2.1 or 5.1 channel speaker system or even a full home theatre surround sound system.

GOOD: Connecting RCA Stereo

Requires RCA Stereo Audio cable (included)

Standard colours for RCA stereo is WHITE=LEFT channel, RED= RIGHT channel.

1. Plug the RED and White RCA cables in to the WHITE and RED RCA STEREO AUDIO OUTPUT on the player and plug the other end in to the RCA Stereo input on the television or the stereo or Home Theatre system.
2. Set the connected television, stereo or Home Theatre system to the input source used in step #1.



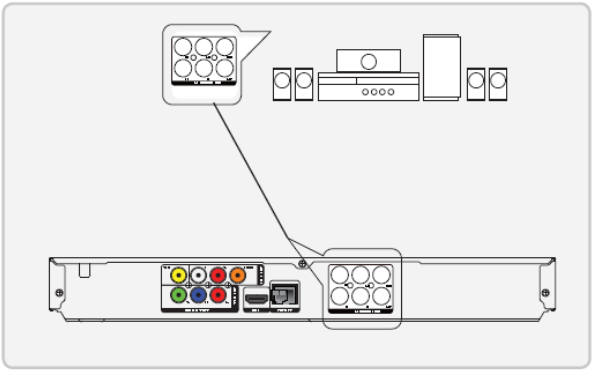
3. This will allow audio from the player to play on the connected device.

NOTE: *The STEREO AUDIO OUT terminals will always provide a down-mixed stereo signal from multi-channel sources. The "Down Mix" and other speaker settings in the Audio Setup do not affect the STEREO AUDIO OUT.*

BETTER: Connecting 5.1 Channel Audio.

Requires a set of 5.1CH Audio Cables. (not included).

1. Plug the 5.1CH audio cables into the plugs that make up the 5.1 AUDIO OUT put on the rear of the player.
2. Connect the other end of the cables to the 5.1CH AUDIO input on your Home Theatre or 5.1 speaker system.
3. Please be sure to match the output to the correct input.



Each plug is labelled to indicate the audio channel it carries

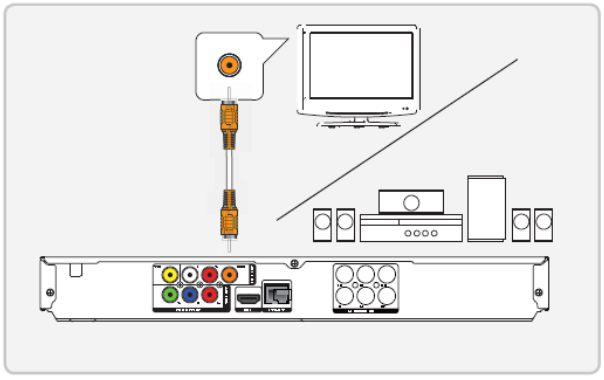
FR = Front Right	**SL = Surround (Rear) Left**	**CEN = Centre (Voice)**
FL = Front Left	**SR = Surround (Rear) Right**	**SW = Sub Woofer (Bass)**

BETTER: Connecting Coaxial Digital Audio

Requires a Coaxial Digital Audio Cable (75 ohm RCA) (not included)

Standard colour for coaxial digital audio ports is ORANGE.

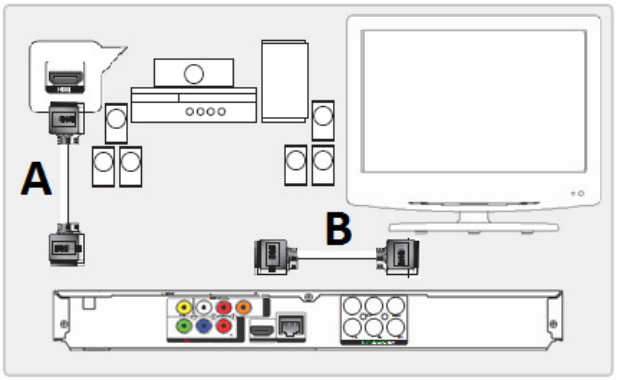
1. Plug the COAXIAL DIGITAL AUDIO Cable in to the COAXIAL DIGITAL AUDIO OUTPUT on the player and plug the other end in to the COAXIAL DIGITAL AUDIO Cable input on the television or Home Theatre system.
2. Set the connected home theatre system to the input source used in step #1.



BEST: Connecting the HDMI cable to a Home Theatre system

Requires 2 x HDMI V1.3 cables (not included).

1. Plug the first HDMI cable (**A**) into the **HDMI OUTPUT** on the player and into the **HDMI input** on the Home Theatre System.
2. Plug the second HDMI cable (**B**) into the **HDMI OUTPUT** on the Home Theatre System and into the **HDMI input** on the television.



NOTE: *If you have connected the BLU-BD1080 to a Home Theatre System using the Coaxial Digital Audio cable or the 5.1 Audio Cables you may need to also connect the RCA Stereo Connection to your TV To allow Audio to be heard through the TV when it is not convenient to have the Home Theatre System turned on.*

- *Combinations of Audio and Video Connections are possible depending on the equipment the player is to be connected to. Please refer to the equipment user manual to determine the method or combination that best suits your needs.*

- *HDMI can transmit both audio and video signals over a single cable. If you have an HDMI capable receiver that can support HDMI audio, you can simply run an HDMI cable from the player to your receiver and enable HDMI audio on the receiver (see your receiver's owners' manual for more information). The receiver usually has an HDMI output that you can connect to your TV to pass the video signal.*

- *HDMI is a wonderful thing. A single cable can transport both audio AND video from your player to your display. Be aware, however, that HDMI is an evolving standard, and there could be compatibility issues. A receiver that supports audio input over HDMI is required.*

- *Some receivers offer HDMI ports solely for video switching. If your receiver does not have audio input capability, please read the following sections regarding other connection methods.*

- *In order to play multi-channel audio for all formats, the receiver must support HDMI v1.1 or later. For Blu-ray Disc, a receiver that supports HDMI v1.3 with decoding capability for Dolby TrueHD and DTS-HD Master Audio is preferred. Please check the specifications of your receiver to ensure that it meets the requirements.*

- *Due to bandwidth limitations, high resolution audio formats such as Dolby Digital Plus, Dolby TrueHD, DTS-HD High Resolution and DTS-HD Master Audio cannot be sent through the coaxial digital audio output. A reduced resolution version of the same audio track will be output instead. To listen to high resolution audio formats in their best quality, please use the HDMI connection if you have a receiver that handles HDMI audio.*

- *Due to copyright restrictions and bandwidth limitations, full resolution audio from DVDAudio discs cannot be sent through the coaxial or optical digital audio output. To listen to DVD-Audio in full resolution, please use the HDMI or analogue audio connections.*

CONNECTING BY ETHERNET

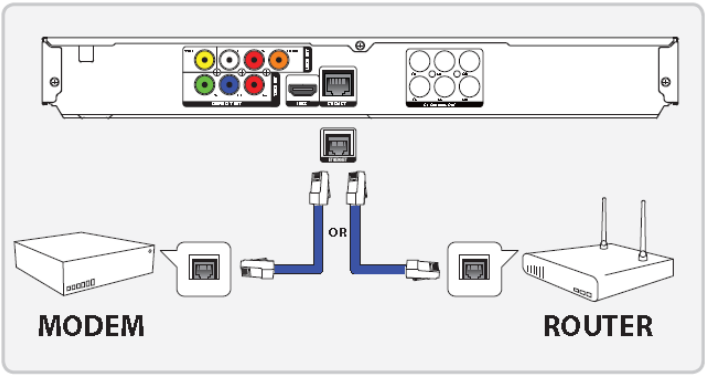
Requires an Ethernet cable (not included)

The BLU-BD1080 Blu-Ray Disc Player supports the BD-Live™ feature offered on some Blu-ray Disc titles. BD-Live™ offers extra downloadable content and additional online interactive programs. The available BD-Live™ contents vary by discs and studios, and may include additional subtitles, commentaries, movie trailers, games, and/or online chat.

Connecting the player to the Internet will also allow the player to obtain firmware updates via the Internet.

In order to utilize the BD-Live™ feature or update firmware via the Internet, the player needs to be connected to a broadband Internet connection. You must have access to a working broadband Internet service connection. It is not necessary to connect to the Internet if you do not intend to use BD-Live™.

1. Plug an Ethernet cable (Category 5/5E straight Ethernet cable) into the ETHERNET PORT on the rear of the player and plug the other end in to a spare port on a router, switch or modem with an internet connection.
2. For most home network setups the BLU-BD1080 will connect automatically.



3. Please check the settings as shown in the main menu described later in this manual.
4. Refer to the operating instructions supplied with the broadband router or modem, or contact your Internet service provider for questions related to setting up the router or modem.

NOTE: *Only connect the LAN port of the player to an Ethernet port that supports 10BASE-T or 100BASE-TX. Connecting to any other ports or jacks, such as a phone jack, can damage the player.*

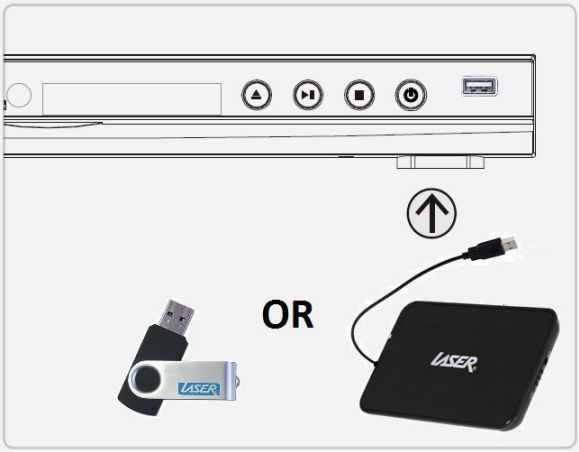
CONNECTING A USB DEVICE

Requires a USB Flash drive or an external USB HDD (not included).

1. Insert the USB drive (or cable) into the USB port on the front of the player.

2. If the drive is to be used for BD-Live™ content it is accessed through the main menu of the Blu-ray discs when played.

3. To access the content of the USB device for playback please see the Media Center section later in this manual.



NOTE: *The USB ports are rated to provide a maximum of 5V, 500mA power to the USB drive. It is sufficient for all USB thumb drives and flash memory card readers, but may not be sufficient for USB hard disks. It is recommended that you use a USB hard disk with an external power supply.*

This unit supports "USB Mass Storage Class Bulk-Only Transport" devices only. Most USB thumbs drives, portable hard disk drives and card readers conform to this device class. Other USB devices such as MP3 players, digital cameras, and mobile phones may not be compatible.

Supported USB drives must be formatted with the FAT (File Allocation Table) or FAT32 file system. Drives formatted with NTFS file system supported as read only and cannot be used for BD-Live.

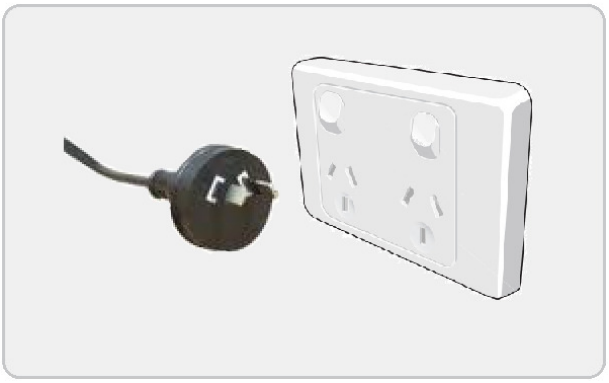
In some cases, an incompatible USB device may cause the player to stop responding. If this occurs simply turn off the power, remove the USB device, and turn the player back on.

The player accesses the USB drive in read and write mode. In order to minimize the risk of data corruption, it is recommended that you only unplug the USB device when playback is completely stopped.

CONNECTING POWER

1. Connect the power plug from the player to a mains power outlet and then turn the switch on.

2. Check the power LED on the front panel of the player. It should now be RED.

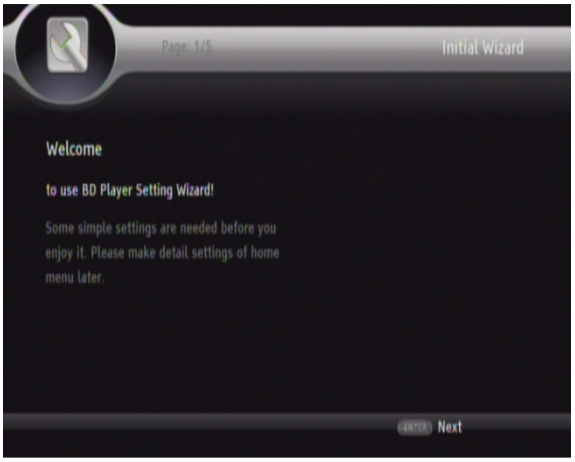


The BLU-BD1080 is now ready to use.

START-UP WIZARD

Press the Power button on the remote control to start the player.

1. The first time the player is started a Wizard guides you through the basic settings of the player.

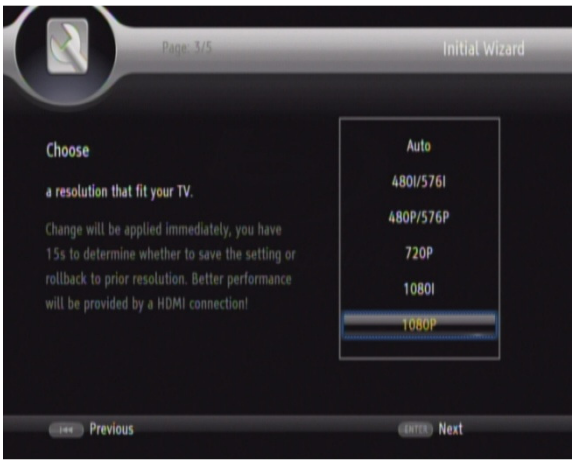

Page: 1/5
Initial Wizard
Welcome
to use BD Player Setting Wizard!
Some simple settings are needed before you enjoy it. Please make detail settings of home menu later.
Next

Press the Enter Button to Continue

2. First shown is the On Screen Language Option

Press the Enter Button to continue

3. Use the UP & DOWN Navigation buttons on the remote control to select the correct resolution for your Television or monitor you are using. Please refer to the manufacture documentation to confirm compatible resolutions.

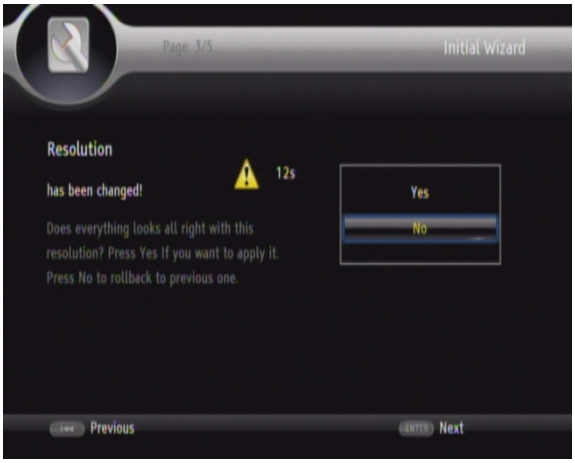


Press the Enter Button to continue

Note: *If you are connecting the player using the Composite Video Connection method please select the 480I/576I or 480P/576P options only. Higher resolutions will not be displayed.*

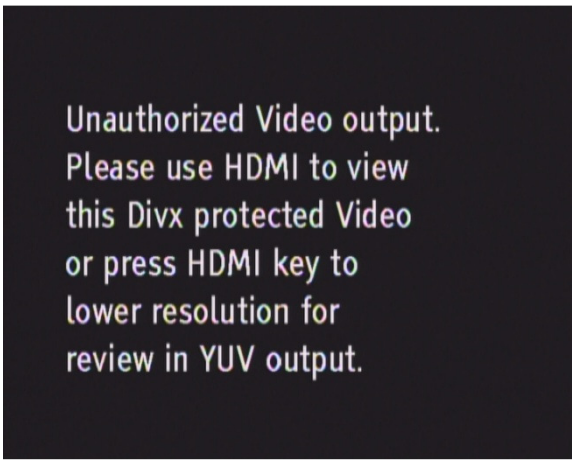
4. In case the select resolution is not compatible with the attached television the BLU-BD1080 will ask you to confirm the resolution change. By default it will time out after 15 seconds and revert to the previous settings. Using the UP &DOWN navigation buttons on the remote control please select YES and press enter.

   If you do not see this screen please wait for 15 second the BLU-BD1080 will revert to the previous resolution.



5. If the message shown to the right is displayed it means that the current selected resolution is not compatible with the display.

   Press the HDMI button on the remote control to adjust the output resolution of the player. Repeat until the Start-up Wizard is visible again.


Unauthorized Video output.
Please use HDMI to view
this Divx protected Video
or press HDMI key to
lower resolution for
review in YUV output.

6. With the display resolution set you will need to set the Aspect Ratio for the Display.

   In most cases Selecting the "**16:9 Normal"** option is the best. If you do not have a wide screen TV please select the "**4:3 Letterbox"** option.

   (please see further for A detailed explanation of Aspect Ratios)

   Press the Enter Button to continue

SETUP MENU

When the Start-up Wizard is complete The Main Setup Menu will be displayed so you can fine tune the settings on the BLU-BD1080 to suit the environment it is being used in and the equipment it is being used with.

The Setup Menu can be accessed at any other time by press the SETUP/HOME button on the remote control at any time.

- Use the LEFT, RIGHT, UP and DOWN navigation buttons on the remote to navigate the Setup Menu.
- Use the ENTER button on the remote to confirm the selection.
- Other Keys to be used are displayed on screen throughout the menu.

Note: *Some options in the Setup menu may not be available if a disc is being played. Please stop all play back to access all features.*

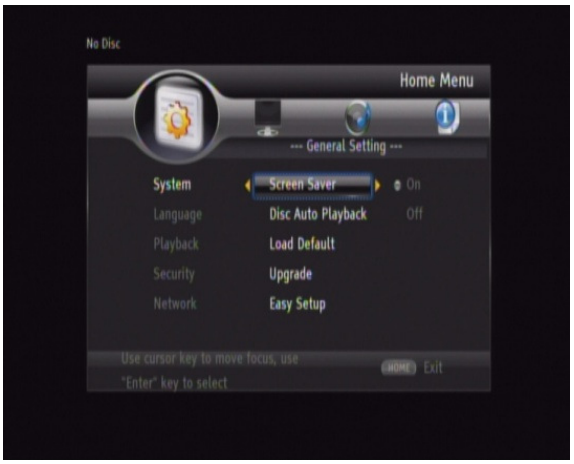
GENERAL SETTING

First shown screen is the General Settings menu. Use the UP and Down navigation button on the remote control to select the sub setting to change.

Use the Right navigation button to access the option.

The Current set option is marked.

Press the Left navigation button on the remote control to go back a level or the SETUP/HOME button to exit the Setup Menu entirely.



BLU-BD1080 USER MANUAL

SETUP MENU

Menu	Feature	Option	Description
System	**Screen Saver**	**ON**	Starts Screen saver if no video is being played or not used for 60 seconds.
		OFF	Turns Screen Saver feature OFF
	Disc Auto Playback	**ON**	Playback of recognised discs starts when inserted.
		OFF	Playback of disc to be started manually.
	Load Default		Restores ***All*** settings on the BLU-BD1080 to factory default and launches the START-UP WIZARD
	Upgrade	**DISC**	Upgrade Player firmware By CD
		USB STORAGE	Upgrade Player Firmware by USB device
	Easy Setup		Launches ***STARTUP WIZARD***
	BUDA		Displays the current BUDA information.
		BUDA Information	Sets the BUDA mode: EXTERNAL (recommended) ON BOARD
Language	**OSD (On Screen Display)**	**ENGLISH**	The Menu Language for the BLU-BD1080 is set at English only.
	MENU	**ENGLISH** **SPANISH** **DUTCH** **SWEDISH** **KOREAN**	Select the language you wish the Disc menu to automatically be displayed in. ***Note:*** *Selected language must be available on the disc being played.* ***Other language options also available.***
	AUDIO	**ENGLISH** **SPANISH** **DUTCH** **SWEDISH** **KOREAN**	Select the language you wish the Disc audio to automatically be played in. ***Note:*** *Selected language must be available on the disc being played.* ***Other language options also available.***
	SUBTITLE	**ENGLISH** **SPANISH** **DUTCH** **SWEDISH** **KOREAN**	Select the language you wish the movie subtitles to automatically be displayed in. ***Note:*** *Selected language must be available on the disc being played.* ***Other language options also available.***

BLU-BD1080 USER MANUAL

SETUP MENU

Menu	Feature	Option	Description
Playback	**Closed Caption**	**ON**	Turns the Closed Caption feature ON
		OFF	Turns Closed Caption feature OFF
	Angle Mark	**ON**	Shows if extra scene angles are available on current disc. ***(Use with ANGLE button on remote control)***
		OFF	Will not show alternative Angles
	PIP Mark This Features is also called **BONUS*VIEW***	**ON**	Turns the PIP feature ON for discs that contain this feature. Icons will be displayed on the screen when available.
		OFF	Turns the PIP feature OFF for discs that contain this feature. Icons will not be displayed.
	Secondary Audio Mark (SAM)	**ON**	Turns the SAM feature ON for discs that contain this feature. Icons will be displayed on the screen when available.
		OFF	Turns the SAM feature OFF for discs that contain this feature. Icons will not be displayed.

Security		AUST Rating	Player Rating	
	Parental Control *Password = 0000*		**OFF**	Turns the Parental control features **OFF**
			KID SAFE	Only plays Discs classifieds as **Kid Safe**
			G	Only plays Discs classifieds as **G** and lower
			PG	Only plays Discs classifieds as **PG** and lower
			PG-13	Only plays Discs classifieds as **PG-13** and lower
			PGR	Only plays Discs classifieds as **PGR** and lower
			R	Only plays Discs classifieds as **R** and lower
			NC-17	Only plays Discs classifieds as **NC-17** and lower
			ADULT	Only plays Discs classifieds as **ADULT** and lower

Note: *Select a player rating that is equal to the Australian classification. E.g.: Selecting the* ***PGR*** *or* ***R*** *rating on the player will allow movies with the*

*Australian **M** classification to be played.*

SETUP MENU

Menu	Feature	Option	Description
Network	**Internet Connection**	**Enabled**	Allows Access to the internet by the player
		Disable	Stops access to the internet by the player
	Information	**More**	Shows current network settings used by the player.
	Connection Test	**Press Enter**	Connection tested and a pop up shows results
	IP Setting	**Auto**	Automatically sets IP address from DHCP Server usually the Internet modem.
		Manual	Set the Network connection of the player manually. ***(Please refer to Modem documentation for more information on IP settings on your network)***
	BD-Live™ Connection	**Permitted**	Allow access to the internet for BD-Live™ feature automatically when accessed.
		Partial Permitted	BD-Live access is permitted only for contents that have a valid content owner certificate. Internet access is prohibited if the BD-Live contents do not have a certificate. This option ensures that you are accessing only authentic content, although it may block your access to smaller independent content providers
		Denied	Stops access to the internet by the BD-Live™ feature at all times.

DISPLAY SETTINGS

The Display Settings menu allows you to fine tune the way the BLU-BD1080 presents the video on your Television or monitor.

Use the UP and Down navigation button on the remote control to select the sub setting to change.

Use the Right navigation button to access the option.

The Current set option is marked.

Press the Left navigation button on the remote control to go back a level or the SETUP/HOME button to exit the Setup Menu entirely.

SETUP MENU

Menu	Feature	Option	Description
TV	TV SCREEN	**16: FULL**	Scales image to fill 16:9 screen
		16:9 NORMAL	Shows image without distortion
		4:3 PAN&SCAN	Scales image to fill the 4:3 screen
		4:3 LETTERBOX	Shows image without distortion
		Some content	***may appear distorted due to the original material***
	Resolution	**AUTO**	Resolution is set by TV with HDMI cable only
		480I/576I	720x480/576 Interlaced image
		480P/576P	720x480/576 Progressive Scan image
		720P	1280x720 Progressive Scan image
		1080I	1920x1080 Interlaced image
		1080P	1920x1080 Progressive Scan image
	TV System	**NTSC**	Output is in NTSC
		PAL	Output is in PAL
		Multi	Both formats are permitted. ***Must be support by TV***
	Colour Space *(For TVs with this feature)*	**YCbCr**	The HDMI output uses YCbCr 4:4:4 colour space.
		YCbCr 422	The HDMI output uses YCbCr 4:2:2 colour space. Generally this is the colour space that is closest to the colour space encoded on the discs. (All discs are encoded in YCbCr 4:2:0 colour space and the video decoder decodes it into YCbCr 4:2:2.)
	HDMI Deep Colour ***(For TVs with this feature)***	**30 bits**	Use the 30-bit per pixel Deep Colour mode.
		36 bits	Use the 36-bit per pixel Deep Colour mode
		48 bits	Use the 48-bit per pixel Deep Colour mode
		OFF	Do not use HDMI Deep Colour
VIDEO PROCESS	**Sharpness**	**High**	Sets the edge level detail to high
		Middle	Sets the edge level detail to medium
		Low	Sets the edge level detail to low.
MOTION VIDEO	**Video Mode**	**Standard**	Sets the display to standard
		Vivid	Brightens the video Display
		Smooth	Set the colour transitions to Smooth

Note: *Please note that some of the Display Settings require a compatible television or monitor and connection method that supports those features. Please see the rear of this manual for more detailed information on some of the features and settings that are available.*

AUDIO SETTINGS

The AUDIO Settings menu allows you to fine tune the way the BLU-BD1080 decodes the audio and presents the signal to your Television or Home Theatre system

Use the UP and Down navigation button on the remote control to select the sub setting to change.

Use the Right navigation button to access the option.

The Current set option is marked.

Press the Left navigation button on the remote control to go back a level or the SETUP/HOME button to exit the Setup Menu entirely.

Menu	Feature	Option	Description
AUDIO OUTPUT	**SPDIF**	**Bitstream**	Digital Audio Output via SPDIF will be in Bitstream format
		PCM	Digital Audio Output via SPDIF will be multi-channel Linear PCM format.
		Re-encode	Recode PCM to DTS bitstream format
		OFF	Turns SPDIF output off
	HDMI	**Bitstream**	Digital Audio Output via HDMI will be in Bitstream format
		PCM	Digital Audio Output via HDMI will be multi-channel Linear PCM format.
		Re-encode	Recode PCM to DTS bitstream format
		OFF	Turns HDMI Audio output off
	Down Sample	**48K**	Sets the PCM down sample rate to 48Khz
		96K	Sets the PCM down sample rate to 96khz
		192K	Sets the PCM down sample rate to 192Khz
	DRC ***(Dynamic Range Compression)***	**Off**	Turns DRC features OFF
		On	Turns DRC features ON
		Auto	Allows DRC to be set automatically

SETUP MENU

Menu	Feature	Option	Description
SPEAKER SETTING	**Configuration**	**2.X**	Adjust the Audio for 2.X Speaker setup
		3.X	Adjust the Audio for 3.X Speaker setup
		4.X	Adjust the Audio for 4.X Speaker setup
		5.X	Adjust the Audio for 5.X Speaker setup
		6.X	Adjust the Audio for 6.X Speaker setup (HDMI only)
		7.X	Adjust the Audio for 7.X Speaker setup (HDMI only)
	Follow the on screen	*instructions to*	*adjust the audio for your speaker set up.*
	Test tone	**More**	Sends a Test tone to the current speaker setup
POST PROCESS	**UpMix**	**OFF**	Turns the Audio Post Processing OFF
		PL2	Set the Audio Post Processing to PL2
		NE06	Set the Audio Post Processing to NE06

Note: *Please note that some of the Audio Settings require a compatible television, monitor and Home Theatre system and connection method that supports those features. Please see the rear of this manual for more detailed information on some of the features and settings that are available.*

SYSTEM INFORMATION

The System Information screen shows the current software version as well as the player MAC (Media Access Control) address.

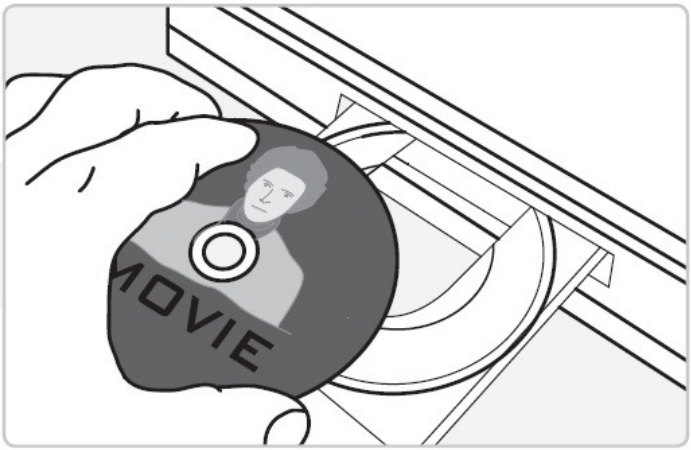
Press the SETUP/HOME button to exit the SetUp menu and return the normal playback screen.

Home Menu
--- System Information ---
Software Version : BDP-077_2CH_110615
MAC : 00 -00 -
Use cursor key to move focus, use
"Enter" key to select
HOME Exit

PLAYING A DISC

With the player setup it is time to play a disc in the BLU-BD1080 player.

- Press the **STANDBY** button to turn the play on
- Press the **OPEN/CLOSE** button on the remote or the player to open the DISC TRAY
- Place the disc in to the centre of the tray with the label facing up.
- Press the **OPEN/CLOSE** button on the remote or the player to close the DISC TRAY



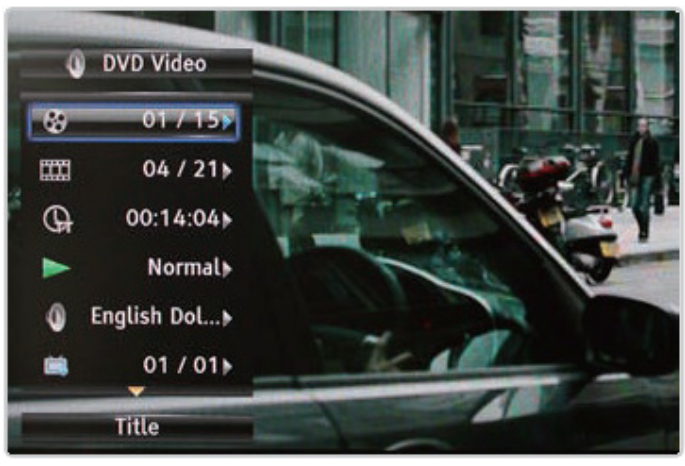
- If the Disc does not begin playback automatically press the PLAY button on the remote or the remote controller or on the player.
- Use the **LEFT, RIGHT, UP** and **DOWN** navigation buttons on the remote to navigate the Disc menu and press the **Enter** button to confirm the selection.
- Please refer to the Remote control details on page 10 for available options during disc playback.

> ***Note:*** *Not all options on the remote control will be available on all discs. Some options require the content of information to be available on the disc itself to work. Please refer to the Disc case to determine available features or options on the disc.*

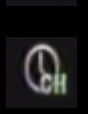
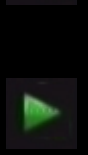
OSD (On Screen Control)

Press the OSC button on the remote control during disc playback for control options. Use the **UP, DOWN, LEFT** and **RIGHT** buttons to navigate through the options. Press the **ENTER** button to confirm selection.

Numeric keypad may be used for some entries.



ON SCREEN CONTROL

Icon	BD	DVD	CDDA	MC	Description	OPTION
	✓	✓	✓	✓	Disc now playing	
	✘	✘	✘	✓	Current File	Select another file to player
	✓	✓	✓	✓	Current title or track number	Select a title or track to skip directly to.
	✓	✓	✘	✓	Current Chapter number	Select a chapter to skip directly to
	✓	✓	✓	✓	Playback time	• Current • Chapter remaining • Title remaining
	✓	✓	✓	✓	Playback type	• Normal • Random Chapter • Random Title • Random All
	✓	✓	✘	✓	Audio track	Disc content dependant
	✓	✓	✘	✘	Angle	Disc content dependant
	✓	✓	✓	✓	Subtitle	Disc content dependant
	✘	✘	✘	✓	Code Page	Displays Code page of current file.
	✓	✘	✘	✘	Subtitle Style	Disc content dependant
	✓	✘	✘	✘	Second Video (PIP)	Disc content dependant
	✓	✘	✘	✘	Second Audio	Disc content dependant
	✓	✓	✓	✓	Audio/Video Bitrate	Toggle between Audio or Video Bitrate display
	✓	✓	✘	✘	Still Off	Disc content dependant
	✓	✓	✓	✓	INS Search*	Fast forward at 2 x.
	✓	✓	✓	✓	INS Replay*	Fast rewind at 2 X.

BD=Blu-ray Disc; DVD = DVD; CDDA= CD Audio discs; MC = Media Center

****Press the PLAY button to resume normal playback.***

Note: *Not features or options shown here may be available for all discs or files. Some features require the disc or file to contain extra content for these features. Please check the disc case or file source to determine if the feature are available.*

Creating and Using Bookmarks

(BD & DVD only)

The bookmark feature works for DVD and Blu-ray discs only.

1. Follow the instructions for Playing a Disc.

2. Press the **BOOKMARK** button on the remote control to bookmark the current point in the playing disc. *You can create up to 12 bookmarks.*

3. To access saved bookmarks, press and hold the **BOOKMARK** button for 5 seconds. *The on-screen bookmark menu will appear.*

4. Use the **NAVIGATION** buttons on the remote to select and view a saved bookmark and press the enter button to confirm the selection.

Programming a Disc

(DVD & CD audio only)

1. Follow the instructions for Playing a Disc.

2. While the disc is playing, press the **PROGRAM** button on the remote control. *A program menu will appear on the television*.

3. Press the **ENTER** button.

4. Use the **ARROW** buttons to select a title and chapter. Press the **ENTER** button.

5. Press the **PLAY** button to begin playing the programmed disc.

Cancelling a Program

(DVD & CD only)

1. While the disc is playing, press the **PROGRAM** button on the remote control.

2. Press the **RETURN** button on the remote control to clear the set program

MEDIA CENTRE

The media centre allows some multimedia files to be played on the BLU-BD1080 Blu-ray player.

The files can be stored on compatible CD, DVD, USB flash drive or USB hard drive.

Load the disc containing the files in the tray or Plug the device containing the files in to the USB port on the front of the Player as described earlier in this manual.

Allow a few second for the USB device to be detected correctly and then press the Media Center Button on the remote control.

1. The left hand panel of the Media Center Screen shows the type of media in the tray or USB port.

2. The right hand panel show the Type, size and file system of the current selected item.

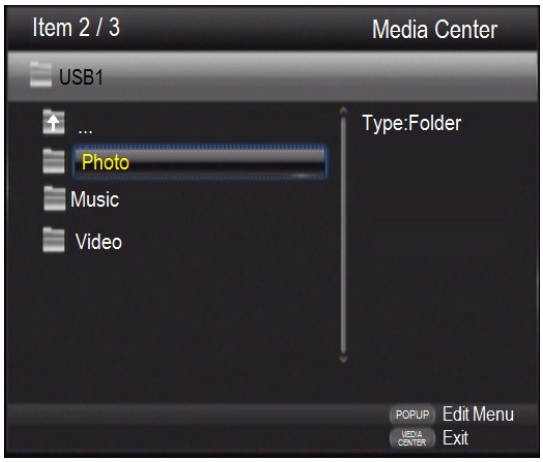
Use the **UP & Down** navigation buttons on the remote to select the media to open.

The Playlist folder will show all files that are currently added to the Playlist.

Playing a file

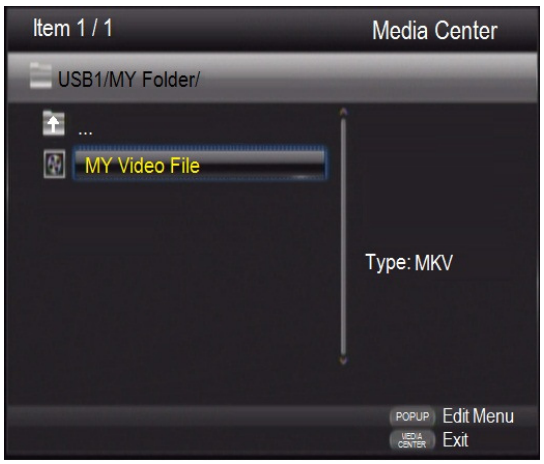
Once the device that contains the media files has been selected use the **UP & DOWN** navigation buttons to select the type of files to be viewed.

- **Photo:** Will only display compatible image files.
- **Music:** Will only display compatible Music files.
- **Video:** Will only display compatible Video files.



Press **ENTER** when media type has been selected or use the ... icon to go back a screen.

Use the **UP, DOWN** and **ENTER** buttons to navigate your way to find the file that you wish to play.



- The Path is listed in the top bar
- The File names are list in the left panel
- The file type is shown in the right panel.

When the correct file to be played is found press the ENTER button to begin playback.

Press **ENTER** when media type has been selected or use the ... icon to go back a screen.

To control the playback of the file, please see **Remote Control** and **On Screen Control** section.

Creating a Playlist

Individual files or the contents of a folder can be added to a playlist. Once the playlist has been created it can be used to playback files one after the other.

Files can be added by selecting the file to be added and pressing the **Right** navigation button. The file will be marked with a .

Repeat until you have several files to add to the playlist.

Press the **POPUP/TITLE** button to show the Play list options.

- **Add To Playlist:** Adds the selected file(s) to the Playlist.
- **Select All:** Selects all files and folders in the current folder and adds to the Playlist.
- **Clear All:** Clears all tagged files from the Playlist.
- **Cancel:** Cancels Menu.

Use the **UP** and **Down** navigation buttons to make the selection and then press the **ENTER** button to confirm.

Note: *Playlists are created per file type. Mixed playlists cannot be created.*

Playing a Playlist

Press the **Media Center** button on the remote control to launch the **Media Center.**
Use the **UP** and **Down** navigation buttons to select the **Playlist** option and press the **ENTER** button.

Use **UP** and **Down** navigation button to select the file to start playing from and then press the **ENTER** button.

During playback use the **PREVIOUS/NEXT** buttons to skip to the previous or next file in the playlist.

The playlist can be edited by selecting the file to be removed and pressing the **Right** navigation button. The file will be marked with a ✔.

Press the **POPUP/TITLE** button to display the options menu for the playlist.

- **Remove From Playlist:** Removes the selected file(s) from the Playlist.
- **Select All:** Selects all files in the Playlist.
- **Clear All:** Clears all marked files.
- **Cancel:** Cancels Menu.

Use the **UP** and **Down** navigation buttons to make the selection and then press to the **ENTER** button to confirm.

> ***NOTE:*** *USB devices connected to the BLU-BD1080 must be formatted in the FAT32 or NTFS file system only.*

GETTING THE BEST FROM THE PLAYER

PAL/NTSC

NTSC format discs contain 480 horizontal lines of information. Most TVs sold in Australia are designed to display content in the PAL format. PAL contains 576 horizontal lines.

Video from NTSC discs may appear to be of lower quality than PAL content.

DVD Up-Scaling

DVD up-Scaling over the component output is only available for unencrypted discs such as home video and consumer-created contents. Most commercially pressed DVD discs are CSS-encrypted and will be limited to 480i/480p resolution.

This restriction applies to the component output.

DVD Region Encoding

The BLU-BD1080 is region free for the playback of DVD. The BLU-1080 is compatible with DVDs from all regions. Please check the DVD for the correct language or subtitle content.

Blu-Ray Region Encoding

If the region number of a BD-Video or DVD disc does not correspond to the region number of this player, this player cannot play the disc.

Changing the Region Code

The region coding of eth BLU-BD108 can be changed using the remote control.

- Remove any disk that may be in the tray.
- On the remote control press the SETUP/HOME button
- Press 8-5-2-0 on the Numeric Keypad on the remote. The Screen shown to the right will be displayed.

Use the UP/DOWN navigation buttons on the remote control to highlight the disc type you want to change the region for

DVD Region Change
The BLU-BD1080 is factory preset to region 0 to play all regions and it is recommended that the DVD region not be changed unless absolutely necessary.

To change the region, please follow the steps as above and so the DVD Region Code box is highlighted.

Using the Numeric Keypad on the remote control, press the number of the region code for the disc to be played.

When the code is set, press the SETUP/MENU button on the remote control to return to the main screen and play discs as normal.

Acceptable Region codes are **1, 2, 3, 4, 5, 6** or **0.** If the code is set from 1 through 6, only discs coded for that region can be played and the Region code will need to be reset before disks from other regions can be played.

BD Region Change
The BLU-BD1080 is factory preset to region B. To play BD titles from any other region it is necessary to change the Region Code on the player before playback.

To change the region, please follow the steps as above and so the DVD Region Code box is highlighted.

Using the Numeric Keypad on the remote control, press the number of the region code for the disc to be played.

When the code is set, press the SETUP/MENU button on the remote control to return to the main screen and play discs as normal.

Acceptable Region codes are **1 (Region A), 2 (Region B), 3 (Region C).** There is no **All** region code for Blu-ray discs.

Resolution

Blu-ray playback is possible through any connection method although the output resolution will be limited by the connection method the display or home theatre system or the content of the Blu-ray disc being played.

FULL-HD (1080p) is only possible on devices that support a resolution of 1080p. Please refer to the documentation of your display device to confirm the supported resolutions.

If you are connecting the BLU-BD1080 through other devices such as a Home Theatre System these also must be 1080p compatible.

Aspect Ratios

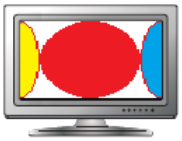
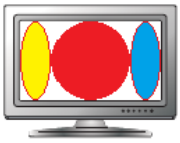
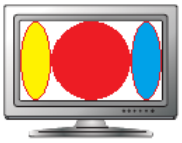
The Picture Aspect Ratio can be changed not only to suit the Display type but the content being played as well.

4:3 or Standard Aspect Ratio TV

16:9 or Widescreen Aspect Ratio TV

You can set the way that a Wide screen image will be displayed on the display device.

Setting the Aspect ratio as described in the main Set-Up menu allows you to adjust the way that you view the video from your BLU-BD1080 player. Please see below to see an indication of how different content is displayed.

	Original content	4:3 Letterbox	4:3 Pan & Scan	16:9 Normal	16:9 Full Screen
4:3					
16:9					

Note: *Some movies are presented in 2:35.1 ratio to preserve the Theatrical release originality of the movie. These movies will present with a black bar across the top and bottom of the picture during playback. This is normal for these movies.*

Some early DVD titles prior to main stream Widescreen television use a 4:3 non-anamorphic widescreen aspect ratio. When played on a 16:9 display, the content is shown in a small window with black borders on all four sides.

The top and bottom borders are encoded into the video. The left and right borders are added by the player to maintain the correct aspect ratio. For this type of discs the "Full Screen" zoom mode can be used to eliminate the borders.

Please check the original disc case to determine the aspect ration the movie is presented in.

HDMI Deep Colour

Deep Colour is an OPTION for ***some*** TVs or projectors that feature HDMI v1.3 inputs. Normally, each pixel of the video image is transmitted using 24-bit data (8-bit per channel for R, G, B or Y, Cb, Cr).

If Deep Colour is supported, each pixel of the video image can be transmitted using 30-bit (10-bit per channel), 36-bit (12-bit per channel) or 48-bit (16 bit per channel) data. The increased bit depth should result in smoother colour transitions and better gradients. The available options are:

- **30 bits:** Sets the colour depth at 32 bit mode.
- **36 bits:** Sets the colour depth at 36 bit mode.
- **48 bits:** Sets the colour depth at 48 bit mode.
- **OFF:** Turns Deep Colour Mode OFF

Note: *Deep Colour mode may not be supported by all Televisions and these settings may result in no change to the picture quality being displayed.*

At this time no disc is encoded with Deep Colour. Enabling deep colour will not make colour richer but will help preserve the maximum precision as a result of video processing and picture control.

HDMI V1.3 or later cable must be used.

HDMI 1080P 24Hz

Also known as 24P, this option only applies to the HDMI output at 1080p resolution. Many Blu-ray Discs that originated from theatrical movies are encoded using 24Hz frame rate, the same number of frames per second as the original theatrical film. If the TV properly supports 1080p 24Hz, smoother motion can be achieved by enabling **1080p 24Hz Output** for such discs.

The available options are

- **ON:** Video encoded in 24Hz frame rate will be output as 1080p 24Hz without regard to whether the TV can support the 1080p24 signal or not. If the TV cannot support 1080p24, selecting this option will result in no video.
  Please ensure that your television support this features before selecting.

- **OFF:** Video Encoded in the 24Hz frame rate will be converted to 50Hz (PAL) or 60Hz (NTSC).

Audio Setup

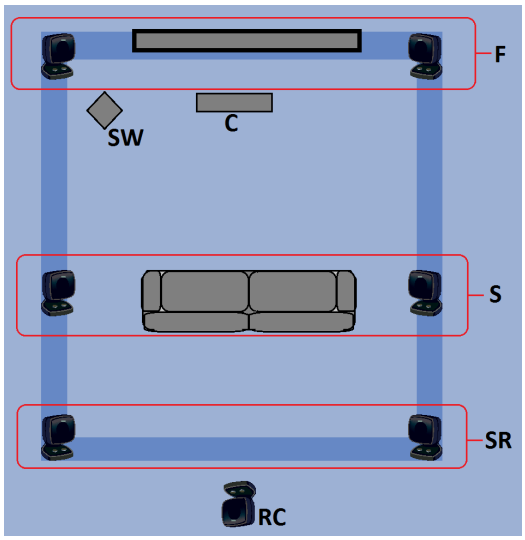
As well as the Audio setup as described earlier in this manual, if you have multiple speaker audio set up, either through the television, an analogue speaker setup or a Home Theatre System, the BLU-BD1080 allows you to fine tune the audio output to best suit your environment.

From the **Main Setup** menu select **Audio Settings >> Speaker Settings >> Configuration.**

Select the number of speakers that you have connected to your system from simple stereo speaker (2.0), stereo speaker with a subwoofer (2.1) right up to full **DTS-HD High resolution** 7.1 channel system.

You will be asked to select the Channel mode for the selected option. These options will vary depending on what equipment you may have connected to the player via the HDMI cable. The BLU-BD1080 may automatically detect an HDMI connected Home Theatre System and select the number and type of audio channels available

Here is a basic diagram of Home Theatre speaker layouts.



F= Front Left and Right Speakers
SW= Sub Woofer: (1 or 2)
C= Centre: Voice channel
S= Surround Speakers left and right
SR= Surround Rear Speaker left and right
RC= Rear Centre Speaker

2.1	F + SW	**5.1**	F + C + SW + SR
3.1	F + SW + C	**6.1**	F + C + SW + SR + RC
4.1	F + SR + SW	**7.1**	F + C + SW + S + SR

6.1 & 7.1 through HDMI only

The Audio configuration should be used in conjunction with the documentation for your Home Theatre or speaker setup. This documentation will show the best position, angle and distance for each speaker.

The Speaker settings in the Audio setup allow you to fine tune the audio and set the size trim and delay for individual speakers as they are placed in the room.

A test sound is also available to help set the position of the speakers in relation to your viewing position.

> ***Note:*** *Speaker Identification and terminology may vary slightly between manufactures. Please read all documentation carefully to help identify all components and how they relate to terms used in this document.*

GETTING THE BEST FROM THE PLAYER

Blu-ray Discs may contain many types of audio signal formats, some of those are of the high resolution types such as Dolby TrueHD and DTS-HD Master Audio. Blu-ray Discs also have many optional audio components such as the Secondary Audio Program and menu clicking sound. The player's Audio Format Setup menu allows you to configure the audio output to meet your specific preference. The following chart provides a reference to what type of audio signal can be expected when Secondary Audio option is set to off.

Output Ports	**HDMI Output**		**Coaxial/Optical Output**		**Analogue Multi-Channel Output**
Setting / Source Format	**Bitstream**	**PCM**	**Bitstream**	**PCM**	
PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch	PCM 2ch	2ch
PCM 5.1ch	PCM 5.1ch	PCM 5.1ch	PCM 2ch	PCM 2ch	5.1ch
PCM 7.1ch	PCM 7.1ch	PCM 7.1ch	PCM 2ch	PCM 2ch	7.1ch
Dolby Digital	Dolby Digital	PCM 5.1ch	Dolby Digital	PCM 2ch	5.1ch
Dolby Digital Plus	Dolby Digital Plus	PCM up to 7.1ch	Dolby Digital	PCM 2ch	Up to 5.1ch
Dolby TrueHD	Dolby TrueHD	PCM up to 192kHz 24-bit 7.1ch	Dolby Digital	PCM 2ch	Up to 5.1ch
DTS	DTS	PCM up to 7.1ch	DTS	PCM 2ch	Up to 5.1ch
DTS-HD High Resolution	DTS-HD High Resolution	PCM up to 7.1ch	DTS (core)	PCM 2ch	Up to 5.1ch
DTS-HD Master Audio	DTS-HD Master Audio	PCM up to 96kHz 24-bit 7.1ch or 192kHz 24-bit 2ch	DTS (core)	PCM 2ch	Up to 5.1ch

Note: *If you use HDMI to connect audio to an HDMI A/V receiver or audio processor, it is important that you choose 720p or higher HDMI output resolution when playing high resolution audio content (DVD-Audio, SACD, Dolby TrueHD and DTS-HD Master Audio). According to the HDMI specification, the bandwidth available for audio is proportional to the total bandwidth used by video. At 480p/576p resolution, the HDMI specification can only support 2 channels of audio with high sample rate (up to 192kHz) or 8 channels of audio with standard sample rate (up to 48kHz). If you play high resolution audio content at the 480p/576p resolution, you may get reduced audio resolution, incomplete audio channels, or even no audio/video output at all. Choosing a higher output resolution such as 720p or above allows enough bandwidth for all high sample rate audio channels.*

Bonus*VIEW* and Secondary Audio

Certain Blu-ray Discs contain secondary video and secondary audio. This feature is often called **BONUS*VIEW*** *OR* Picture-in-Picture (PIP) and **SECONDARY AUDIO**. When such a disc is played, a **BONUS*VIEW*** mark (PIP Mark) and a **SECONDARY AUDIO** PROGRAM mark (SAP Mark) may be displayed on the screen to alert you to the availability of the secondary audio/video content.

Bonus*VIEW* (PIP) icon

Secondary Audio Program (SAP) icon

1. The disc menu usually features interactive controls to turn on/off the Picture-in-Picture video and Secondary Audio Program. Please use those controls to select the desired secondary audio/video content.

2. There is a **BONUS*VIEW*** button (9) on the remote control. If the disc menu does offer interactive **BONUS*VIEW*** controls, please use this button to turn on/off **BONUS*VIEW*** or select from multiple secondary video programs.

3. There is also a **SECONDARY AUDIO** button (34) on the remote control. If the disc menu does offer interactive secondary audio controls, please use this button to turn on/off Secondary Audio Program or select from multiple secondary audio tracks. Secondary Audio Programs are generally only available when **BONUS*VIEW*** is shown.

   NOTE: *This function is available only when the discs are recorded with secondary video and audio programs.*

   Discs may not always be played back according to the **BONUS*VIEW*** *and* ***SECONDARY AUDIO*** *buttons. Certain discs can ignore or override the remote control commands.*

   The **BONUS*VIEW* (PIP)** *and* ***SECONDARY AUDIO*** *Marks (SAM) on the screen can be turned off using the Setup Menu of the player*

BD-LIVE

Some Blu-ray Disc titles are released with the BD-Live feature. BD-Live offer extra downloadable content and additional online interactive programs. The available BD-Live content vary by discs and studios, and may include additional subtitles, commentaries, preview trailers, games, and online chat. The player needs to be connected to the Internet in order to play BD-Live content.

Depending on how the studios organize their BD-Live content, some Blu-ray Discs may start downloading BD-Live content when playback starts; some have a BD-Live selection on its main menu; some may show a prompt to ask whether you would like to start downloading; and some may ask you to sign up for a membership or account. Please follow the instructions that come with the disc to enjoy BD-Live content.

Your Internet connection speed, the overall Internet traffic situation and the capacity of the BD-Live content servers can all affect how fast BD-Live content can be downloaded. If you encounter slow downloading or intermittent playback, please play the disc without accessing the BD-Live features, or try again at a different time.

When you use the BD-Live feature, the player or disc ID and your IP (Internet Protocol) address may be sent to the content provider via the Internet. Generally, no personally identifiable information is sent. However technologies exist to match your IP address to a certain geographical area or service provider. Your Internet service provider also has the knowledge of who is using which IP address. If the BD-Live content provider requires you to login using a membership or account, the content provider will have access to your membership or account information. Please check with your Internet service provider and the BD-Live content providers for their privacy policy.

You can choose to restrict BD-Live access using the player's Setup Menu (See page 25).

BD-Live requires a USB flash drive of at least 2GB in size to be connected to save downloaded content.

BD Discs that have the BD-Live features will display a warning message when loaded if BD-Live content cannot be saved to the player or USB device. A USB device with enough free space must be connected before accessing the BD-Live content on that disc.

It may be necessary to unload and reload the disc before accessing the BL-Live content if no USB device was detected when the disc was loaded.

Manual Network Settings

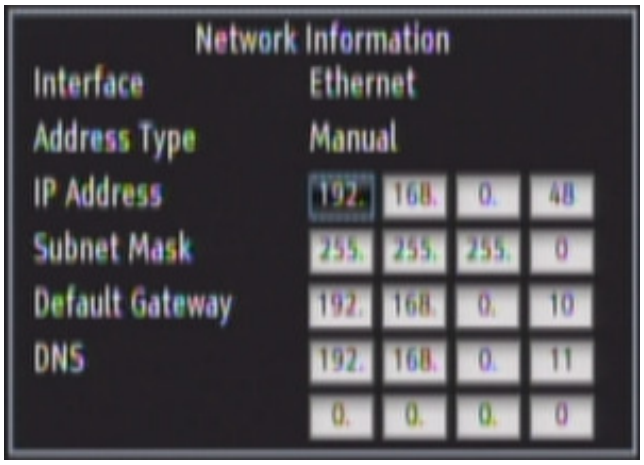
If the BLU-BD1080 is unable to connect to your network when the Auto option is selected or your network has unique requirements the network settings can be set manually.

In the **General Settings** menu select **NETWORK >> IP SETTING >> MANUAL**

Use the **Left** and **Right** navigation buttons select setting to be changed.

Use the **Down** navigation button to delete the current entry and then use the keypad to enter the new numbers.

When all the settings are correct press the **ENTER button.**



IP Address: The Internet Protocol address of the player. Check the IP settings for all other devices on your network and assign a number that is not in use and in range of the device in your network that is acting as the DHCP server.

Subnet Mask: Each IP address has an associated subnet mask. It is used by the player to decide whether to route network traffic through the router or directly to another device on the same network.

Default Gateway: The IP address of the router. It may also be called the Default router or Gateway on other devices.

DNS (1): The IP address of the first (primary) **DNS** (Domain Name Server). The DNS is the mechanism to translate human-readable address (such as www.laserco.net) to numeric IP addresses.

DNS (2): The IP address of the secondary **DNS** severs if required.

When all the settings have been made and are correct press the **ENTER** button to confirm the changes.

Please complete a **Connection Test** to check the settings. If all settings are correct a ***Network is OK*** message should be displayed. If it is not displayed you should go back and check the physical connections and settings.

TROUBLESHOOTING

In order to prolong the service life of your player, it is recommended to wait at least 30 seconds before you turn it on again after switching it off.

- Remove disc and turn power off after operation.
- Some functions of the player may not be applicable to certain discs.
- Some discs with special features may not be fully supported by the player. This is not a malfunction of the unit.
- In case of player malfunction, please turn it off, wait for 30 seconds and turn it back on. If the problem still exists, please follow the troubleshooting instructions or contact Laser Technical Support.

Use this chart to resolve general operational problems. If there are any problems that you cannot resolve, please contact Laser technical Support

Symptom	Possible Cause	Solution
No sound	Audio cable is not properly connected	Check audio cable, and then reconnect if necessary.
	Mute is activated	Press the MUTE button to cancel the mute.
	Volume is too low	Press the VOL + button to increase the volume to a preferred level.
	SACD is played and the audio connection is coaxial	This is not supported due to copyright restrictions of SACD. Please use the analogue or HDMI audio output.
	DVD-Audio is played and the audio connection is coaxial.	This is not supported due to copyright restrictions of SACD. Please use the analogue or HDMI audio output. Alternatively, you may switch to the DVD-Video playback mode.
No picture	Video cable is not properly connected	Check video cable; reconnect if necessary.
	TV input is not correctly selected	Select the input to which the player is connected.
	Video output format is not support by the TV	Select a proper output resolution that is supported by your TV.
	Video system is not supported by the TV	Set the correct TV System in the Setup Menu.

TROUBLESHOOTING

Symptom	Possible Cause	Solution
No colour	Video system is not supported by the TV	Set the correct TV System in the Setup Menu.
	Saturation set too low	Check the saturation setting on TV.
	Loose or damaged component video cables	If using component output, check that the three cables are all properly plugged in and not damaged. Make sure the colour of the plugs match the jacks on both ends.
	Incorrect video output port	If using composite video output, check that the cable is not incorrectly plugged into a component video jack.
Incorrect colour	Incorrect colour space setting	If using HDMI for video output, check the colour space setting on the TV and player.
	Incorrect component video cable connection	If using component video output, check the three component video cables to make sure the signals match on both ends
Picture rolling or split picture	Video system is not supported by the TV	Set the correct TV System in the Setup Menu.
"No Disc" or "Unknown Disc" Error	No disc or incompatible disc loaded in player	Eject disc and check. Verify player functionality by inserting a known working disc.
	Dirty disc recording surface	Eject the disc and clean any dirt or fingerprints.
	Disc not properly loaded	Eject disc and make sure the label side is facing up and the record side is facing down.
	Condensation on the Laser pick-up head	Turn on the player, eject the disc and leave the player on for about an hour.
Remote control failure	Remote control is out of range	Use the remote control within the effective range. Point Remote at IR receiver on front Panel.
	Low battery	Replace the batteries.
Temporary function failure	Scratched or damaged disc is used	Replace the disc.
	Some functions are not available during playback	Stop playback completely, then try again.
	Interference from other devices	Identify interference by turning off other devices, and then relocate or replace the offending device.
Some Setup Menu items are greyed out	Some setup options cannot be changed while a disc is playing. Some setup options may be mutually exclusive with other setup options.	Fully stop playback by pressing the stop button twice, eject the disc and try the Setup Menu again.

TECHNICAL SPECIFICATIONS

Disc Types*	BD Rom (SL/DL) / DVD+RW/+R/+RW(SL/DL) CD/CD-R/RW/CD-DA, VCD JPEG	
BD Profile	BD-LIVE Version 2 (requires USB Storage)	
Loader type	Sanyo loader	
HDMI	Version 1.3	
Blu-ray Playback	1080p / 1080I / 720p via HDMI	
HD output	Full HD output 1080/24p via HDMI	
DVD UPSCALING	720p/1080i/1080p via HDMI (non restricted content only)	
Colour System	PAL/NTSC/MULTI	
Audio System	Dolby Digital TrueHD/ Dolby Digital Plus Decoder Dolby Digital / DTS decoder	
BD Region	Region B only	
DVD Region	Region Free	
Connections	**Analogue Audio**	Stereo LEFT/RIGHT (RCA) 5.1 Channel Audio (RCA)
	Digital AUDIO	Coaxial (75 OHM RCA) HDMI : Stereo, Up to 7.1 Channel
	Analogue Video	Composite (Yellow RCA) Component (Y/Pb/Pr 480i/480p, 720p/1080i for non restricted content only)
	Digital Video	**HDMI** Ver 1.3 **PAL** 576i/576p/720p/1080i/1080p/1080p24 **NTSC** 480i/480p720p/1080i/1080p/1080p24
	Input	1 x USB 2.0 + 1 x 10BASE-T/100BASE-TX
General Specifications	Power Supply: ~ 100V – 240V, 50/60Hz AC Power Consumption: Up to 14W (less than 1W Standby) Dimensions: 360mm x 232mm x 49mm Mass: 1.6kg (Player Only)	
Operating Temperature	10°C - 35°C	
Operating Humidity	20% - 70% No condensation	

* Compatibility with user-encoded contents or user-created discs is on a best effort basis with no guarantee due to the variation of media, software and techniques used.

CONTACT INFORMATION

For more information on this product and technical support please visit
HTTP://WWW.LASERCO.NET

FOR OTHER ACCESSORIES AND PRODUCTS

http://www.laserco.net